

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Oscar A Zuniga

Confirmation No.: #4

Application No.: n/a

Examiner: n/a

Filing Date: herewith

Group Art Unit: n/a

Title: Dynamic Bilevel Thresholding Of Digital Images



COMMISSIONER FOR PATENTS
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a petition under 37 CFR 1.97(d)(2), and
☐ a \$180.00 petition fee set forth in 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EL795268108US

Date of Deposit 1/31/02

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

By 

Typed Name: Tara A. Schulze

Respectfully submitted,

Oscar A Zuniga

By 

Augustus W Winfield

Attorney/Agent for Applicant(s)

Reg. No. 34,046

Date: 1/30/02

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

100111772-1

APPLICATION NO.

n/a

CONFIRMATION NO.

n/a

APPLICANT

Oscar A. Zuniga

FILING DATE

herewith

GROUP

n/a

jc879 U.S. PTO
10/062250
01/31/02

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	1A	5,179,599	Jan 12, 1993	Formanek	382	51
	1B	5,201,014	Apr 6, 1993	Degi et al	382	51
	1C	5,280,367	Jan 18, 1994	Zuniga	358	462
	1D	5,649,025	Jul 15, 1997	Revankar	382	171
	1E	5,651,077	Jul 22, 1997	Dong et al	382	172
	1F					
	1G					
	1H					
	1I					
	1J					
	1K					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	1L	WO96/02897	Feb 1, 1996	Abdel-Mottaleb	G06T	7/60	X	
	1M	EP0499875B1	Nov 27, 1996	Matsumura et al	G06T	5/00	X	
	1N	EP0796475B1	Jul 28, 1999	Vaidyanathan et al	G06T	7/00	X	
	1O							
	1P							

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	"A Survey Of Threshold Selection Techniques"; Joan S. Wieszka; Computer Graphics And Image Processing, Vol. 7; pgs. 259-265; 1978
	1R	"Automatic Multithreshold Selection"; Wang & Haralick; Computer Vision, Graphics and Image Processing, Vol. 25; pgs. 46-67; 1984
	1S	"A Survey Of Thresholding Techniques"; Sahoo et al; Computer Vision, Graphics and Image Processing, Vol. 41; pgs. 233-260; 1988

EXAMINER

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10/06/250
01/31/02

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	2A					
	2B					
	2C					
	2D					
	2E					
	2F					
	2G					
	2H					
	2I					
	2J					
	2K					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	2L							
	2M							
	2N							
	2O							
	2P							

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	"A Threshold Selection Method From Gray-Level Histograms"; Nobuyuki Otsu; IEEE Transactions On Systems, Man, And Cybernetics, Vol. SMC 9, No. 1; pgs 62-66; January 1979
2R	"Histogram Modification For Threshold Selection"; Joan S. Wieszka and Azriel Rosenfeld; IEEE Transactions On Systems, Man And Cybernetics, Vol. SMC-9, No. 1; pgs 38-52; January 1979
2S	

EXAMINER

DATE CONSIDERED